

#### ABSTRACT OF THE DISCLOSURE

A rotating fluid machine is provided with a rotor chamber, a rotor accommodated in the rotor chamber, and vanes guided by vane grooves formed in the rotor. A U-shaped vane seal is held by a seal holding groove formed in the end face of each of the vanes. The opposite ends of the vane seal are fitted into slits in seal ancillary members which are fitted into engaging holes formed in the end faces of each of the vanes. The seal ancillary members are pressed by springs toward the inner circumferential face of the rotor chamber. The pressure of a gaseous phase working medium introduced into the bottom parts of the seal holding grooves is restrained from leaking out of the ends of the vane seal by the seal ancillary members. Thus, sealing performance can be secured by pressing the vane seal against the inner circumferential face of the rotor chamber.